



Why did the chicken cross the road?











ENGL COMMON

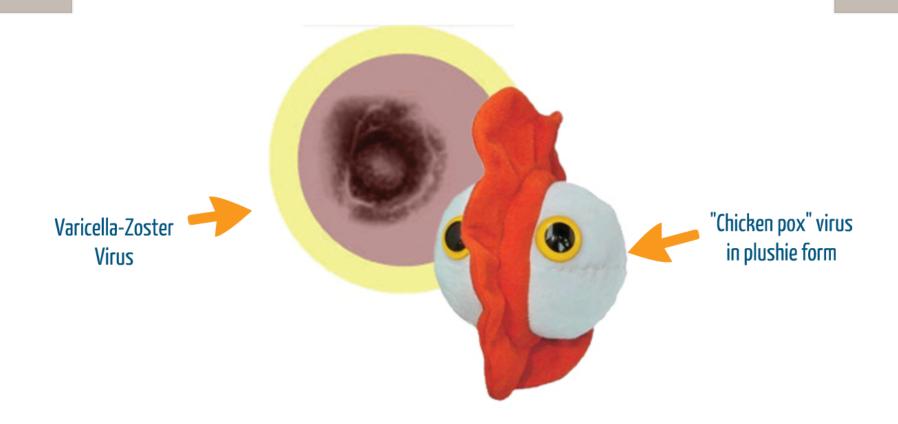








Remember your Dermatomes!



W.C. Wood Company (A)

Learning Objectives

- Identify risk factors for VZV reactivation
- Explain why herpes zoster is more common among the elderly
- List the three most common symptoms that precede skin lesions in herpes zoster
- Identify the progression of lesions from initial reactivation to healing
- Name the most common complication of herpes zoster infection
- Identify four categories of approach to the treatment of herpes zoster

90% of adults in the United States have serologic evidence of prior vzv infection.

The lifetime incidence of herpes zoster? 10-20%

Sh1ngle5: the numbers behind it

• Incidence of herpes zoster: 3.6 per 1000 person-years [one million cases annually]

Age is the most important risk factor

Herpes auster incidence increases 10-fold between children less than 10 years, and adults 30-90years.

50% of pensons living until age 65 will have had an opisode of horpes zester

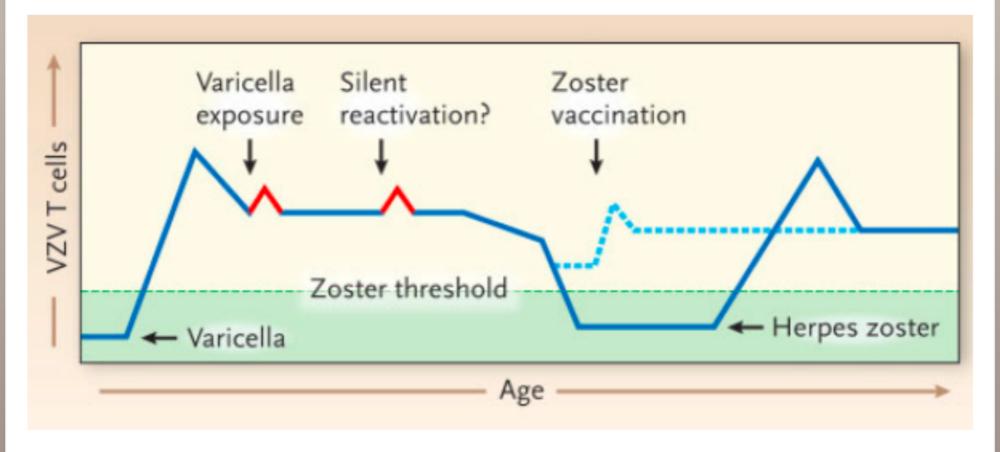
• Complications of herpes zoster increases with age

[Risk for experiencing post-herpetic neuralgia increased 27x among individuals 550 years compared to those 550 years]

• 1-4% of immunocompetent hosts will experience a second episode of herpes zoster

But is age just a number?

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VZV takes advantage of waning immunity:

- Resolution of "chicken pox" associates with specific memory-T cell induction
 - · These memory T cells decline with age

Other risk factors:

- Neoplastic disease
- ImmunoSupreSSion

- Transplant recipients
- · HIV infection

What came first, the chicken or the...rash?

The Prodrome:

- · Pain
- Itchiness
- Tingling
- nonspecific symptoms (fatigue, low grade fever, etc)

Precede skin lesions by 1-5 days

Other Diagnosis Techniques

PCR: sample obtained from skin lesions sensitive (92%) + specific, no cross-reactivity to other viruses

DFA: from scrapings of skin leions; cheaper than a culture; turn around time: 1.5 hrs; detects both VZV and HSV; widely available

Culture: less sensitive than PCR; declining sensitivity if lesions passed vesicular stage

Serologic testing: many false positives; some use it as a screening of VZV susceptibility among healthcare workers

Tzanck Smear: sampled from scraped lesion; simple, inexpensive; cannot differentiate between VZV or other herpesviruses